



# California Regional Water Quality Control Board

## San Francisco Bay Region



Alan C. Lloyd Ph.D.  
Agency Secretary

1515 Clay Street, Suite 1400, Oakland, California 94612  
(510) 622-2300 • Fax (510) 622-2460  
<http://www.waterboards.ca.gov/sanfranciscobay>

Arnold Schwarzenegger  
Governor

Date:  
File No. 2119.1058 (LM)

IR Manager, Seal Beach  
Attn: Ms. Margaret Wallerstein  
Code N45WS  
800 Seal Beach Blvd.  
Seal Beach, CA 90740-5000

**Subject: Case Closure Letter for Underground Storage Tank Site IA-55, Naval Weapons Station Seal Beach Detachment Concord, Concord, California (RWQCB Case No. 07D9025)**

Dear Ms. Wallerstein:

This letter confirms the completion of a site investigation and corrective action for the underground storage tank formerly located in the Inland Area southeast of the intersection of Kinne Blvd. and O Streets and southwest of building IA-55. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required. This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code.

Please contact Laurent Meillier of my staff at 510-622-2440 or email [Lmeillier@waterboards.ca.gov](mailto:Lmeillier@waterboards.ca.gov) if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe  
Executive Officer

**CC:**

Engineering Command Southwest/ Integrated Product Team West  
Attn: Mr. Randy Cate  
2001 Junipero Serra Blvd.  
Suite 600  
Daly City, CA 94014-1976

City of Concord  
Attn: Mr. James Forsberg  
1950 Parkside Dr.  
MS/ 1A  
Concord, CA 94519

Contra Costa County Health Services Department  
Attn: Ms. Sue Loyd  
4333 Pacheco Boulevard  
Martinez, CA 94553

DTSC  
Attn: Mr. Jim Pinasco  
8800 Cal Center Drive  
Sacramento, CA 95826-3200

USEPA  
Attn: Mr. Philip Ramsey  
SFD-8-3  
USEPA REGION 9  
75 Hawthorne St.  
San Francisco, CA 94105

Tetra Tech EM Inc.  
Attn: Mr. Mark Reisig  
10860 Gold Center Dr.  
Suite 200  
Rancho Cordova, CA 95670

Contra Costa County Environmental Health  
Attn: Ms. Agnes Vinluan  
2120 Diamond Blvd. Suite 200  
Concord, CA 94520

- 3 -

Co-Chair RAB Member  
Attn: Ms. Mary Lou Williams  
1015 San Miguel Road  
Concord, CA 94518-2110



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IR Manager, Seal Beach  
Attn: Ms. Margaret Wallerstein  
Code N45WS  
800 Seal Beach Blvd.  
Seal Beach, CA 90740-5000

**Subject: Transmittal of Closure Letter and Site Summary for Underground Storage Tank Site IA-55, Naval Weapons Station Seal Beach Detachment Concord, Concord, California (RWQCB Case No. 07D9025)**

Dear Ms. Wallerstein:

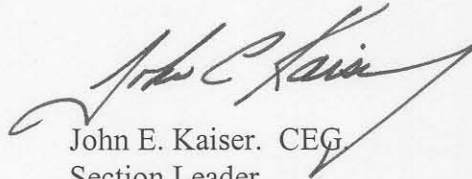
Attached please find the uniform underground storage tank (UST) closure letter and the site closure summary forms for the above referenced USTs. This letter documents that, based on available information, No Further Action (NFA) related to the above mentioned underground storage tank releases is required.

This NFA status applies only to releases of petroleum from fuel USTs at the above referenced site. For those sites where groundwater is polluted by non-petroleum related chemicals or where other sources of petroleum pollution exist (e.g., fuel lines, spills, and above ground tanks), this determination is applicable only to soil and groundwater impacts associated with these UST releases. UST Site IA-55 current land use is industrial and commercial. This site was determined to meet Water Board closure criteria for this use scenario. However, the Regional Water Quality Control Board shall be notified of any changes in future land use.

- 2 -

Please contact Laurent Meillier of my staff at 510-622-2440 or email Lmeillier@waterboards.ca.gov if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "John E. Kaiser". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

John E. Kaiser. CEG  
Section Leader  
DoD/DOE Program Manager  
Groundwater and Waste Containment Division

**Enclosures**

- 1- Case Closure Letter
- 2- Site Summary Form



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2001 Junipero Serra Blvd.  
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Daly City, CA 94014-1976

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Co-Chair RAB Member  
Attn: Ms. Mary Lou Williams  
1015 San Miguel Road  
Concord, CA 94518-2110

## Site Summary Form

16-Nov-05

**Facility Name:** Concord NWS

**Staff Initials:** Laurent Meillier

**County Name:** Contra Costa

**Site:** IA-55

**RB File No.:** 07D9025

**County Code :** 07

**Address:** Kinne Blvd. and O streets  
Concord , CA 94520

## Hydrology

**Nearest Surface Water:** Mt Diablo/ Seal Creek

**Direction of GW Flow:** Northwest

**Distance to Surface Water (ft.):** 400

**Highest GW Depth (ft):** 30 ft

**Water Wells Affected?:** No

**Distance to Wells (ft):** >1500

**No. Wells:** 0

**Lowest GW Depth(ft):** NA

**Groundwater Benef. Use:** MUN

## Geology

**Site Geology:** The late pleistocene alluvium consists of weakly consolidated, irregularly interbedded clay, silt, sand, and gravel deposits.

**Pit Samples Submitted?:** Yes

**No. Borings:** 1

**Ground Elev. (ft.):** 159

## Site Management

### Potential Ecological Risk:

Non-detectable/ very low concentrations of BTEX and TPH-d in samples taken at 16 ft bgs, suggest no impact to terrestrial biological receptors.

**Future Land Use:** Military, light industrial

**Human Health Risk:** Concentrations of BTEX detected in soils are below their respective PRGs.

**Current Land Use:** Military, light industrial

### Institutional Controls:

Per 1995 SFB Basin Plan, the existing use applicable to groundwater in the Clayton Valley includes municipal and potential groundwater uses, including domestic, industrial, industrial process, and agricultural water supplies.

### Management Requirements:

Current land use is industrial/ commercial. If land use changes to residential, RWQCB requires notification of land use change.



**Comments:**

The site includes a 550 gallons capacity UST that held diesel fuel used to heat Building IA-55. On June 7, 1994, a boring was drilled southwest of the UST to a maximum depth of 16.5 feet bgs. No petroleum odor was detected nor was groundwater encountered during drilling. No organic vapors were detected (by PID) in soil samples collected at depths of 4.5, 8, 10.5, 13, and 16 feet bgs. Soil samples collected from depths of 8.5 and 13.5 feet bgs were analyzed for TPH-d, which was not detected in either of the samples.

Excavation of UST IA-55 began on February 5, 1997, and the UST was removed on February 10, 1997. There were ten holes reported on the tank upon removal. No fuel staining was evident on the tank. Dimensions of the initial investigation were approximately 7 feet wide by 10 feet long and 6 feet deep. Two soil samples were collected following the initial excavation. A sample collected beneath the center of the UST at a depth of 7.5 feet bgs contained 260 ppm TPH-d, 0.18 ppm ethylbenzene, 0.01 ppm MtBE, and 0.04 ppm total xylenes. Benzene and toluene were not detected in the sample. A sample was also collected along the line of the fuel supply and return lines at a depth of 2 feet bgs. TPH-d and BTEX were not detected in the fuel line sample. Additional excavation occurred on February 12 and 13, 1997 to remove discolored native soil. The excavation was expanded 2 feet to the northeast, 1 foot to the southeast, and deepened to a maximum depth of 16 feet bgs. Five soil samples were collected at the bottom center and at the bases of the four sidewalls of the excavation and analyzed for TPH-d and BTEX. TPH-d was detected at 16 ppm in the sample at the center of the tank pit, and no BTEX was detected. TPH-d and BTEX were not detected in the other samples. No groundwater was encountered during excavation. The final excavation dimensions measured approximately 11 feet long by 8 feet wide and 14 to 16 feet deep. An estimated 32 cubic yards of hydrocarbon-impacted material was removed from the excavation. The excavation was backfilled on February 20 and March 10, 1997. A total of 84.7 tons of non-regulated petroleum contaminated soil was removed on March 5, 1997.

**Reports:**

KTW & Associates. 1997. "Report Closure of Underground Storage Tank Site IA55." November.

**Staff Notes:****Remedial Activity**

	<b><u>Action Taken</u></b>	<b><u>Amount</u></b>
<b><u>Interim Remedial Action:</u></b>	Work also included removing steel-rail protective posts, a tank-pit monitoring well, removing the fuel supply and return lines, removing the vent riser, and removing a portion of the underground vent line. Overexcavation of discolored soil on 2/12&2/13/97	
<b><u>Free Product:</u></b>	None	0
<b><u>Soil:</u></b>	Excavate & dispose	84.7 tons
<b><u>Ground Water:</u></b>	None	0
<b><u>Vapor:</u></b>	None	0

## Groundwater Results, ppb

Sampling Date	Sample No	Source Matrix	Sampling Phase	Analyte Name	Qualifier	Value	Unit	MW Elevation	MW Latitude	MW Longitude
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## Soil Results, ppm

DATE	Sample N	Source Matrix	Sampling Depth (ft)	Sampling Phase	Analyte name	Qualifier	Value	Unit	Location and Comments
2/10/1997	S-7.5-T1C	Soil	8 Initial	BENZENE	U	0.025	ppm		
2/10/1997	S-7.5-T1C	Soil	8 Initial	ETHYLBENZENE		0.18	ppm		
2/10/1997	S-7.5-T1C	Soil	8 Initial	TOLUENE	U	0.025	ppm		
2/10/1997	S-7.5-T1C	Soil	8 Initial	TPH DIESEL		260	ppm		
2/10/1997	S-7.5-T1C	Soil	8 Initial	XYLENES		0.04	ppm		
2/11/1997	S-2-TR1	Soil	2 Final	BENZENE	U	0.005	ppm		
2/11/1997	S-2-TR1	Soil	2 Final	ETHYLBENZENE	U	0.005	ppm		
2/11/1997	S-2-TR1	Soil	2 Final	TOLUENE	U	0.005	ppm		
2/11/1997	S-2-TR1	Soil	2 Final	TPH DIESEL	U	1	ppm		
2/11/1997	S-2-TR1	Soil	2 Final	XYLENES	U	0.005	ppm		
2/13/1997	S-13-T1SW	Soil	13 Final	BENZENE	U	0.005	ppm		
2/13/1997	S-13-T1SW	Soil	13 Final	ETHYLBENZENE	U	0.005	ppm		
2/13/1997	S-13-T1SW	Soil	13 Final	TOLUENE	U	0.005	ppm		
2/13/1997	S-13-T1SW	Soil	13 Final	TPH DIESEL	U	1	ppm		
2/13/1997	S-13-T1SW	Soil	13 Final	XYLENES	U	0.005	ppm		
2/13/1997	S-14-T1EW	Soil	14 Final	BENZENE	U	0.005	ppm		
2/13/1997	S-14-T1EW	Soil	14 Final	ETHYLBENZENE	U	0.005	ppm		
2/13/1997	S-14-T1EW	Soil	14 Final	TOLUENE	U	0.005	ppm		
2/13/1997	S-14-T1EW	Soil	14 Final	TPH DIESEL	U	1	ppm		
2/13/1997	S-14-T1EW	Soil	14 Final	XYLENES	U	0.005	ppm		
2/13/1997	S-14-T1NW	Soil	14 Final	BENZENE	U	0.005	ppm		
2/13/1997	S-14-T1NW	Soil	14 Final	ETHYLBENZENE	U	0.005	ppm		
2/13/1997	S-14-T1NW	Soil	14 Final	TOLUENE	U	0.005	ppm		

2/13/1997	S-14-T1NW	Soil	14	Final	TPH DIESEL	U	1 ppm
2/13/1997	S-14-T1NW	Soil	14	Final	XYLENES	U	0.005 ppm
2/13/1997	S-14-T1WW	Soil	14	Final	BENZENE	U	0.005 ppm
2/13/1997	S-14-T1WW	Soil	14	Final	ETHYLBENZENE	U	0.005 ppm
2/13/1997	S-14-T1WW	Soil	14	Final	TOLUENE	U	0.005 ppm
2/13/1997	S-14-T1WW	Soil	14	Final	TPH DIESEL	U	1 ppm
2/13/1997	S-14-T1WW	Soil	14	Final	XYLENES	U	0.005 ppm
2/13/1997	S-16-T1C	Soil	16	Final	BENZENE	U	0.005 ppm
2/13/1997	S-16-T1C	Soil	16	Final	ETHYLBENZENE	U	0.005 ppm
2/13/1997	S-16-T1C	Soil	16	Final	TOLUENE	U	0.005 ppm
2/13/1997	S-16-T1C	Soil	16	Final	TPH DIESEL		16 ppm
2/13/1997	S-16-T1C	Soil	16	Final	XYLENES	U	0.005 ppm

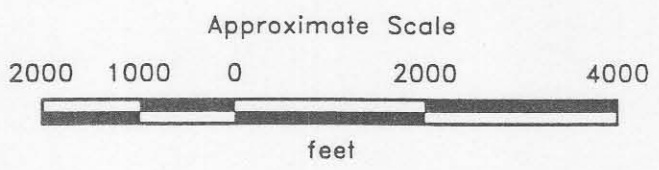
## Tank Information

TANK NO.	TANK SIZE (gal)	TANK CONTENTS	TANK ACTION	DATE	LATITUDE (Decimal Degrees)	LONGITUDE (Decimal Degrees)
IA55	550	Diesel	Removed	2/10/1997	37.992137521603	-121.9824464796



- = Naval Weapons Station Boundary
- = Site location

Source: U.S. Geological Survey  
 7.5-Minute Quadrangles  
 Clayton/Honker Bay, California  
 Photorevised 1980



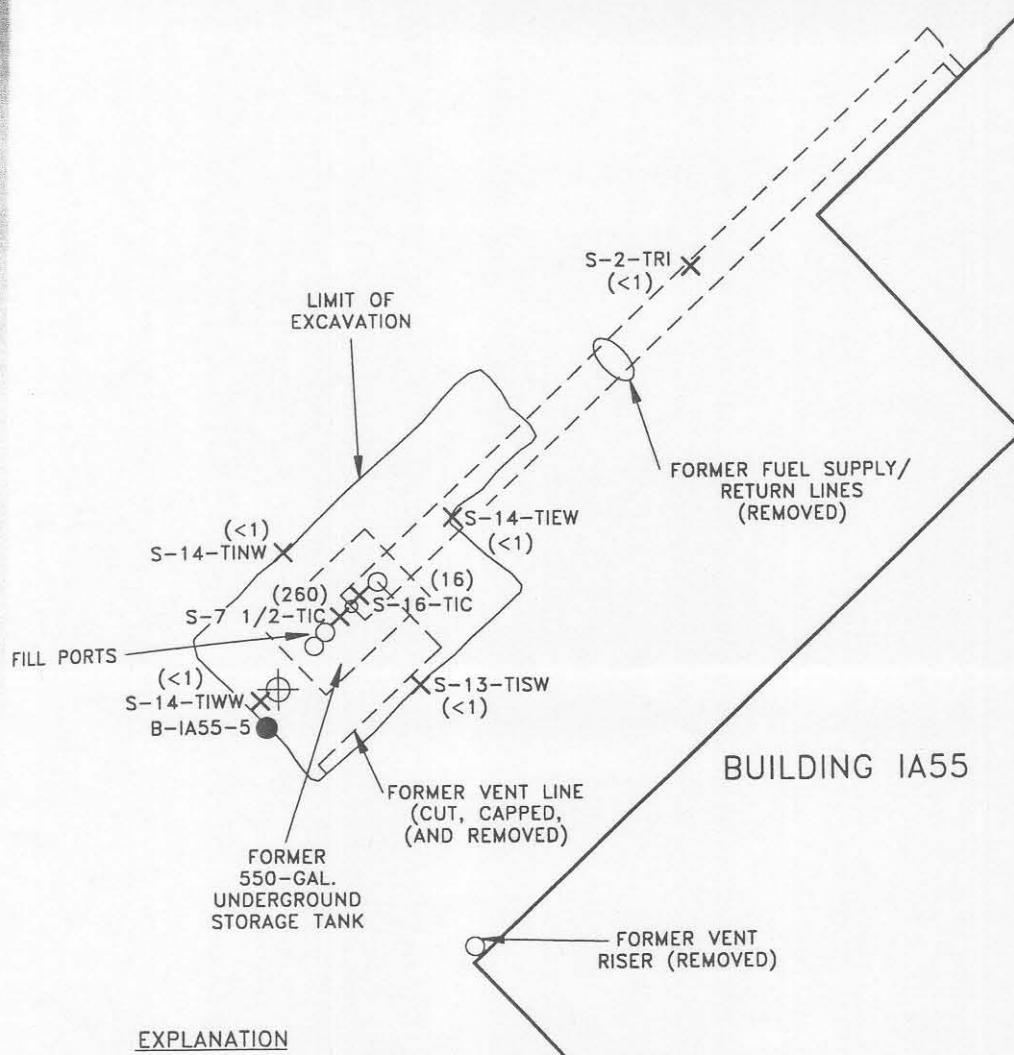
**KTW**  
 & ASSOCIATES

PROJECT NO. DON001

SITE VICINITY MAP  
 Naval Weapons Station  
 Concord, California

PLATE  
 1





#### EXPLANATION

B-IA55-5 ● = Boring location

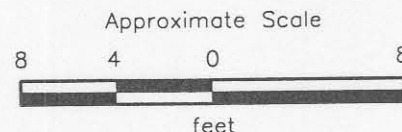
⊕ = Tank pit monitoring well (removed)

S-16-TIC X = Soil sample location

(260) = Concentration of total petroleum hydrocarbons as diesel in parts per million

#### SAMPLE DESIGNATION

S-16-TIC  
 = Center; NW=North wall; SW=South wall;  
 EW=East wall; WW=West wall  
 = Tank No. 1  
 = Depth below ground surface  
 = Soil



SOURCE: Department of the Navy  
 Demolition Plan-Site IA55  
 Drawing C18  
 January 1995

**KW**  
 & ASSOCIATES

PROJECT NO. DON001

SITE PLAN  
 Site IA55  
 Naval Weapons Station  
 Concord, California

PLATE 2